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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/010,461	12/06/2001	Michael Mitsunaga	998046 PA2 7849	
30781 7:	590 07/15/2003			
PHILIP K. YU 20955 PATHFINDER ROAD SUITE 160			EXAMINER	
			CAMPBELL, THOR S	
DIAMOND BAR, CA 91765			ART UNIT	PAPER NUMBER
			3742	9
			DATE MAILED: 07/15/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

.			11			
Office Action Summary		Application No.	Applicant(s)			
		10/010,461	MITSUNAGA ET AL.6			
		Examin r	Art Unit			
		Thor S. Campbell	3742			
	- The MAILING DATE of this communication app	ears on the cover she t with th	e correspondence address			
Period fo		/ IC CET TO EVRIRE 2 MONT	TU(S) EDOM			
THE N - Exten after S - If the - If NO - Failur - Any re	DRTENED STATUTORY PERIOD FOR REPL' MAILING DATE OF THIS COMMUNICATION. sions of time may be available under the provisions of 37 CFR 1.15 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period vertor to reply within the set or extended period for reply will, by statute apply received by the Office later than three months after the mailing d patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be within the statutory minimum of thirty (30) will apply and will expire SIX (6) MONTHS from a special cause the application to become ABANDO	e timely filed days will be considered timely. rom the mailing date of this communication. NED (35 U.S.C. § 133).			
1)⊠	Responsive to communication(s) filed on 11 A	April 2003 .				
2a) <u></u> □	This action is FINAL . 2b)⊠ Th	is action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims A) \(\sum \) (In in (a) \(1.42 \) in (are nonding in the application						
•	Claim(s) <u>1-42</u> is/are pending in the application 4a) Of the above claim(s) <u>29-31</u> is/are withdraw					
		in nom consideration.				
	5) Claim(s) is/are allowed.					
· _	Claim(s) <u>1-24,26-28,32-39,41 and 42</u> is/are rej	eciea.				
1	Claim(s) <u>25 and 40</u> is/are objected to.	r election requirement				
8) Claim(s) are subject to restriction and/or election requirement. Application Papers						
9) The specification is objected to by the Examiner.						
-	The drawing(s) filed on <u>12/06/2001</u> is/are: a)⊠		the Examiner.			
,	Applicant may not request that any objection to the					
11) 🔲 🗆	The proposed drawing correction filed on		· ·			
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. ☐ Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
		·				
 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) ☐ The translation of the foreign language provisional application has been received. 						
15) 🗌 A	acknowledgment is made of a claim for domest					
Attachment		4) T Internion Com-	nany (PTO 412) Papar No(a)			
2) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s) <u>6</u> ,	5) Notice of Inform	nary (PTO-413) Paper No(s) nal Patent Application (PTO-152)			
J.S. Patent and Tr	ademark Office					

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-4, 6-20, 22-24, 26-28, 32-39 and 41-42 are rejected under 35 U.S.C. 102(e) as being anticipated by Akahane (US 6539172).

Akahane discloses a cartridge, which is capable of being detachably attached to a fluid heating device including a heater for heating a fluid to be transfused, comprising: a zigzag-shaped fluid path, through which the fluid passes; and a contact section being capable of contacting the heater, said contact section being made flat and constructed of a material that is heat conducting and transparent, wherein a sectional shape of said zigzag-shaped fluid path, which is perpendicular to a flowing direction of the fluid, is formed into a polygonal shape with sides that are substantially equilateral.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person

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having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 5 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Akahane.

Akahane a cartridge, which is capable of being detachably attached to a fluid heating device including a heater for heating a fluid to be transfused, comprising: a zigzag-shaped fluid path, through which the fluid passes; and a contact section being capable of contacting the heater, said contact section being made flat and constructed of a material that is heat conducting and transparent, wherein a sectional shape of said zigzag-shaped fluid path, which is perpendicular to a flowing direction of the fluid, is formed into a polygonal shape with sides that are substantially equilateral.

Akahane does not explicitly disclose a single membrane covering both sides of said rigid passageway. It would have been obvious to one having ordinary skill in the art at the time the invention was made to, since it has been held that forming in one piece an article which has formerly been formed in two pieces and put together involves only routine skill in the art.

Howard v. Detroit Stove Works, 150 U.S. 164 (1893).

Allowable Subject Matter

Claims 25 and 40 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Applicant's arguments with respect to claims 1-31 have been considered but are moot in view of the new ground(s) of rejection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thor S. Campbell whose telephone number is 703-306-9042. The examiner can normally be reached on Tue-Fri 5:30AM-4:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Teresa Walberg can be reached on 703-308-1327. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9302 for regular communications and 703-872-9303 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0861.

TSC July 14, 2003

THOR CAMPBELL PATENT EXAMINER